

`Description of Additional Supplementary Files

File Name: Supplementary Data 1

Description: Differentially expressed genes at the isoform level in mouse embryos at E8.0 and E9.0.

File Name: Supplementary Data 2

Description: AS profiles for mouse embryos in the transitional stage (from E8.0 to E9.0).

File Name: Supplementary Data 3

Description: The proteomic profile for STRAP-binding candidates.

File Name: Supplementary Data 4

Description: Transcriptome profiles for WT and Strap-KO ESCs and EBs (9-dayold).

File Name: Supplementary Data 5

Description: Comparison profiles of AS events between WT and Strap-KO EBs (9-day-old).

File Name: Supplementary Data 6

Description: STRAP-mediated AS profiles in the context of mouse ESCs or intestinal tissues.

File Name: Supplementary Data 7

Description: The LSVs profile upon deletion of STRAP in 9-day-old EBs.

File Name: Supplementary Data 8

Description: Profiles of STRAP high-confidence RNA-binding peaks.

File Name: Supplementary Data 9

Description: Profiles of STRAP-binding peaks at annotated alternative exons.

File Name: Supplementary Data 10

Description: Primers list for described experiments in this paper.